



MARKED-UP

**COPY**

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UNITED STATES PLANT PATENT APPLICATION

of

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for

SHRUB ROSE

PLANT

'POULaksel'

SHRUB  
ROSE PLANT  
'POULaksel'

ABSTRACT OF THE DISCLOSURE

A new shrub rose plant which has abundant, yellow flowers and attractive foliage. This new and distinct variety has shown to be uniform and stable in the resulting generations from asexual propagation.

## SUMMARY OF THE INVENTION

### Classification:

Botanical:        Rosa hybrida 'POULaksel'

Commercial:     Shrub rose.

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The present invention constitutes a new and distinct variety of garden rose plant which originated from a controlled crossing between 'POULdiram', described and illustrated in U.S. Plant Patent No. 12,568 issued on 23 April, 2002 and an unnamed, non-patented seedling. The two parents were crossed during the summer of 1983 and the resulting seeds were planted in a controlled environment in Fredensborg, Denmark. The new variety is named 'POULaksel'.

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The new variety may be distinguished from its ~~pollen~~ parent, 'POULdiram' by the following combination of characteristics:

20

SEED  
1. The ~~pollen~~ parent has a general tonality of White Group 155C, while that of 'POULaksel' is Yellow Group 4B.

SEED  
2. The ~~pollen~~ parent has a petal count of 12 to 18, while that of 'POULaksel' is 18 to 20.

SEED  
3. The ~~pollen~~ parent has a bloom diameter of 80 mm, while that of 'POULaksel' is 60 mm.

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The objective of the hybridization of this rose variety was to create a new and distinct variety for garden use with unique qualities, such as:

1. Uniform and abundant flowers;
- 5        2. Vigorous, but compact growth when propagated both as a budded rose and on its own roots;
3. Disease resistance.

This combination of qualities is not present in previously available commercial cultivars of this type and  
10 distinguish 'POULaksel' from all other varieties of which we are aware.

As part of their rose development program, L. Pernille Olesen and Mogens N. Olesen germinated the seeds from the aforementioned hybridization during winter 1995  
15 and conducted evaluations on the resulting seedlings in a controlled environment in Fredensborg, Denmark.

'POULaksel' was selected in the spring ~~1994~~<sup>1995</sup> by the inventors as a single plant from the progeny of the aforementioned hybridization.

20        Asexual reproduction of 'POULaksel' by traditional budding and rooted cuttings was first done by L. Pernille and Mogens N. Olesen in their nursery in Fredensborg, Denmark in August, 1995. This initial and other subsequent asexual propagations conducted in controlled environments  
25 have demonstrated that the characteristics of 'POULaksel'

are true to type and are transmitted from one generation to the next.

#### BRIEF DESCRIPTION OF THE DRAWING

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The accompanying color illustration shows as true as is reasonably possible to obtain in color photographs of this type, the typical characteristics of the buds, flowers, leaves, and stems, of 'POULaksel'. Specifically  
10 illustrated in FIGURE 1:

Fig 1.1; Stem showing branching and the attachment of leaves, buds, and peduncles;

Fig 1.2; Flower bud, partially opened bud, and open bloom;

15 Fig 1.3; Flower petals, detached;

Fig 1.4; Sepals, receptacle, and pedicel;

Fig 1.5; Stem as well as a bare stem exhibiting thorns;

Fig 1.6; Leaves.

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#### DETAILED DESCRIPTION OF THE VARIETY

The following is a description of 'POULaksel', as observed in its growth in a field nursery in Jackson  
25 PLANTS WERE GROWN FOR A PERIOD OF 2 YEARS ON R. MULTIFLORA UNDERSTOCK.  
County, Oregon. Color references are made using the Royal

Horticultural Society (London, England) Colour Chart, 1995, except where common terms of color are used.

For a comparison, several physical characteristics of the rose variety 'POULgode', a rose variety from the same inventors described and illustrated in U.S. Plant Patent Application No. 10/782,360 D. 18 FEB 04 ~~09/259,884~~ dated 27 February, 1999 are compared to 'POULaksel' in Chart 1.

CHART 1

		'POULaksel'	'POULgode'
10	General tonality	Yellow Group 4B.	Yellow Group 8B, 9B and 9C.
15	Bloom diameter	60 mm.	35 to 45 mm when open.
20	Petal count	18 to 20.	35 to 45.

Parents:

Seed Parent: POULdiram

Pollen Parent: unnamed seedling

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FLOWER AND FLOWER BUD

Blooming habit: Continuous.

Flower bud:

Size: Upon opening, 27 mm in length  
 from base of receptacle to end  
 of bud.

Bud form: ~~Long.~~ ELONGATE POINTED OVOID.

5 Bud color: As sepals unfold, Yellow-Orange  
 Group 14C, Yellow-Orange Group  
 14C at  $\frac{1}{4}$  opening.

10 Sepals: Upper surface is Yellow-Green  
 Group 144A at margins, Yellow-  
 Green Group 144B in interior.  
 Lower surface is Yellow-Green  
 Group 144A at margins, Yellow-  
 Green Group 144B in interior.  
 Weak foliaceous appendages on  
 15 three of the five sepals.  
 Surfaces of sepals moderately  
 pubescent. Stipitate glands are  
 present along the margins of the  
 sepals.

20 Shape: Sepal apex is cirrose.  
 Base is flat at union with  
 peduncle.

Size: 11 mm long x 5 mm wide.

25 Receptacle:  
Surface: With very small, fine,

white hairs.

Shape: Pear shaped.

Size: Small. 6 mm (h) x 5 mm  
(w).

5 Color: Yellow-Green Group 146B.

Peduncle:

Surface: With many small prickles  
and stipitate glands.

Prickles are less than 1

10 mm long, colored Greyed-  
Purple Group 185C, and  
linear in shape.

Length: 35 to 40 mm average  
length.

15 Color: Yellow-Green Group 144B.

Strength: Strong.

Borne: 3 to 4 buds per flowering stem.

**Flower bloom:**

20 Fragrance: None.

Duration: The blooms have a duration on  
the plant of approximately 10 to  
12 days.

25 Size: Average flower diameter is 60 mm



when open.

Form:

Shape of flower when viewed from the side:

- 5            Upon opening, upper part: Flat.  
            Upon opening, lower part: Convex.  
            Open flower, upper part: Flat.  
            Open flower, lower part: Convex.

- 10           Petalage:        Very double. Average range: 18 to 20  
                                 petals under normal conditions with 4  
                                 to 6 petaloids.

**Color:**

Upon opening, petals:

- 15           Outermost petals:  
                 Outer side:            Yellow Group 4B.  
                 Inner Side:            Yellow Group 4B.  
            Innermost petals:  
                 Outer side:            Yellow Group 4B.  
                 Inner Side:            Yellow Group 4B.

- 20           Upon opening, basal petal spots:

- Outermost petals:  
                 Outer side:            Yellow Group 5B.  
                 Inner Side:            Yellow Group 5B.  
            Innermost petals:  
25           Outer side:            Yellow Group 5B.

	Inner Side:	Yellow Group 5B.
	<u>After opening, petals:</u>	
	Outermost petals:	
5	Outer side:	Marginal zone is Yellow Group 4C, middle zone is Yellow Group 5B.
10	Inner Side:	Marginal zone is Yellow Group 4C, middle zone is Yellow Group 5B.
	Innermost petals:	
15	Outer side:	Marginal zone is Yellow Group 4C, middle zone is Yellow Group 5B.
20	Inner Side:	Marginal zone is Yellow Group 4C, middle zone is Yellow Group 5B.
	<u>After opening, basal petal spots:</u>	
	Outermost petals:	
	Outer Side:	Yellow Group 5B.
	Inner Side:	Yellow Group 5B.
25	Innermost petals:	

Outer Side: Yellow Group 5B.

Inner Side: Yellow Group 5B.

**General Tonality:** On open flower Yellow Group 4B.

5 No change in the general  
tonality at the end of the 5th  
day. Afterwards, general  
tonality is Yellow Group 4D.

10 **Petals:**

Petal Reflex: Strongly reflexed.

Petal Edge: Entire.

Shape: Apex is rounded, base is acute.

Petaloids:

15 Quantity: 4 to 6.

Color: Upper surface is Yellow Group 4C  
and Yellow Group 5B; lower  
surface is Upper surface is  
Yellow Group 4C.

20 Size: 12 mm long x 10 mm wide.

Thickness: Average.

Arrangement: Not formal.

25 **Reproductive Organs:**

Pistils:

Length: 12 mm long.

Quantity: 20 to 25.

Pollen:

5

Quantity: None.

Anthers:

Size: 1 mm long.

Color: Interior is Greyed-Orange  
Group 166A. Margin is  
Greyed-Yellow Group 162B.

10

Quantity: 35 to 40.

Filaments:

Color: Yellow Group 13A.

Length: 10 mm.

15

Stigmas: Roughly even in position relative to  
anthers.

Color: Greyed-Yellow Group 160D.

Styles:

20

Color: Yellow-Green Group 145C at  
base, White Group 155C in  
middle, graduating to Red-  
Purple Group 61C at top.

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Hips:

Shape: Round.  
Size: 13 to 15 mm in diameter.  
Color: Red-Purple Group 59B.

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PLANT

Plant growth: Vigorous and compact. When grown as  
a budded field grown plant on Rosa  
multiflora understock, the average  
10 height of the plant is 100 cm and the  
average width is 100 cm.

Stems:

Color:

Young wood: Yellow-Green Group 144B.  
15 Older wood: Yellow-Green Group 144A.

Thorns:

Incidence: 10 to 12 thorns per 10 cm  
of stem.  
Size: Average length: 9 mm.  
20 Color: Greyed-Purple Group 184B  
and C.  
Shape: Linear.

Surface:

Young wood: Smooth.  
25 Older wood: Smooth.

**Plant foliage:** Normal number of leaflets on normal  
leaves in middle of the stem: 5  
leaflets.

Leaf size: 105 mm (l) x 85 mm (w).

5 Quantity: Average.

Color:

Mature Foliage:

Upper Leaf Surface: Yellow-Green

Group 146A.

10 Lower Leaf Surface: Yellow-Green

Group 147B.

Juvenile foliage:

Upper Leaf Surface: Green Group

137A.

15 Lower Leaf Surface: Green Group

137C.

Anthocyanin intonation:

Location: New growth of top leaves,

20 rachis, petiole and  
stipule.

Color: Greyed-Purple Group 184B  
and C.

25 **Plant leaves and leaflets:**

Stipules:

Size: 25 mm.

Color: Yellow-Green Group 143A on  
upper surface, Yellow-  
Green Group 144A on lower  
surface.

Stipitate glands present along the stipule  
margin.

Petiole:

Length: 8 to 15 mm.

Color: Yellow-Green Group 144A.

Underneath: Yellow-Green Group 144A.

Margins: Stipitate glands present.

Anthocyanin: Present on juvenile  
petioles. Color is Red-  
Purple Group 59D.

Rachis:

Color: Yellow-Green Group 144A.

Underneath: Yellow-Green Group 144A.

Margins: Stipitate glands present.

Anthocyanin: Present on juvenile  
petioles. Color is Red-  
Purple Group 59D.

Leaflet:

Edge: Serrated.

Shape: Ovate.

Glossiness: Glossy.

Thickness: Thick.

5 Arrangement: Odd pinnate.

Venation: Reticulate.

SIZE: 45 mm (l) x 30 mm (w).

**Disease resistance:**

10 Above average resistance to mildew, rust, black  
spot, and Botrytis under normal growing conditions in  
Jackson County, Oregon.

**Cold Hardiness:**

15 The variety 'POULaksel' has been found to be cold  
hardy in Fredensborg, Denmark and Jackson County, Oregon.



CLAIM

5       A new and distinct variety of rose plant of the Shrub  
rose class, substantially as herein illustrated and  
described as a distinct and novel rose variety due to its  
abundant yellow flowers, disease resistance, and extended  
period of bloom.